PEO Ground Combat Systems Overview



Presented to:
Ammunition Executive Summit

Presented By:
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Deputy Program Executive Office



PEO-GCS Vision and Mission

Vision

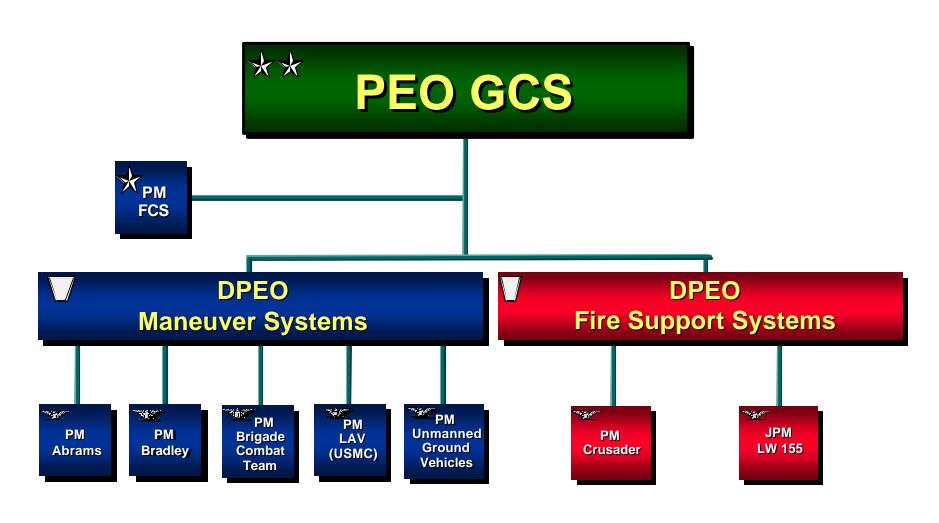
Be the Army's Acquisition Manager For Future Ground Systems As It Evolves Toward The Objective Force.

Mission

Maintain The Total Army Perspective While Managing Assigned Systems. Develop, Acquire, Test, Integrate, Improve, and Field Programs While Meeting Cost, Schedule and Performance Goals

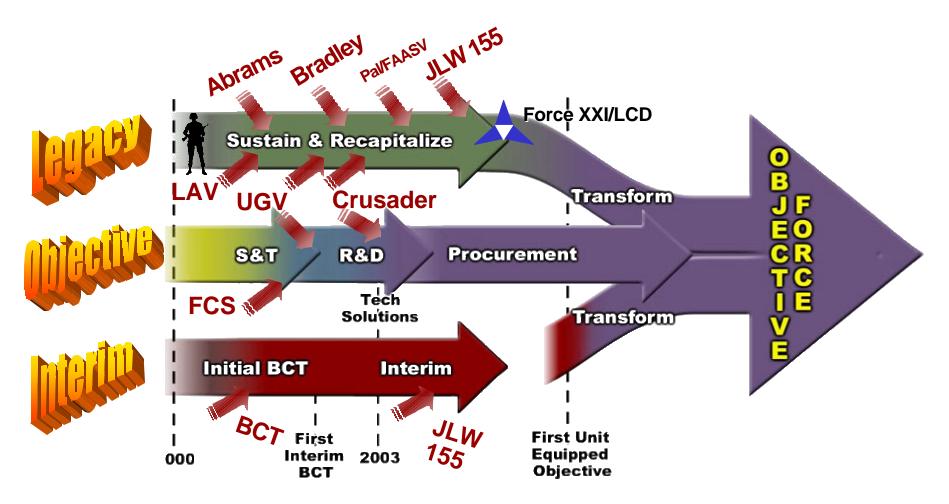


Current Organization



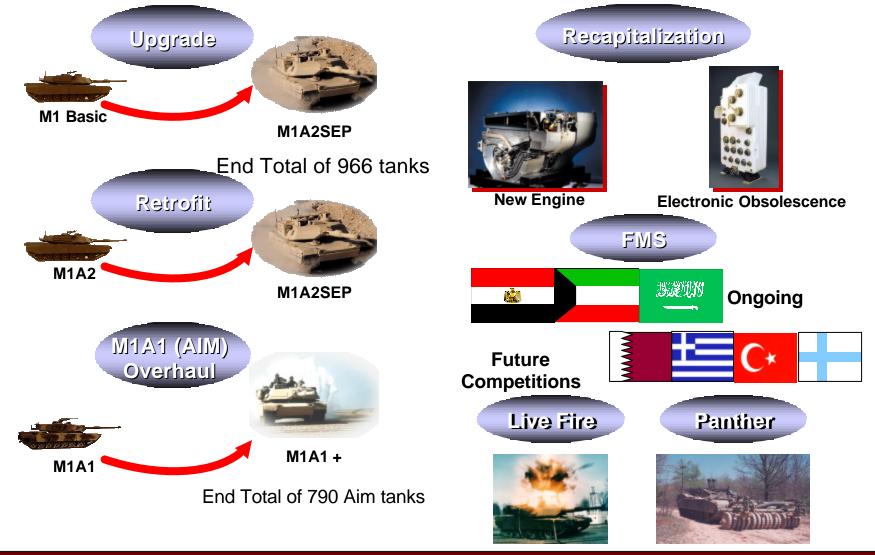


The Army Transformation



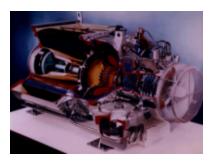


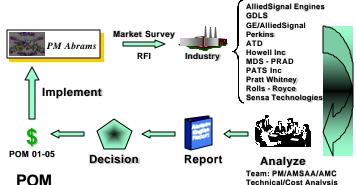
Abrams Tank System Programs Within the Project





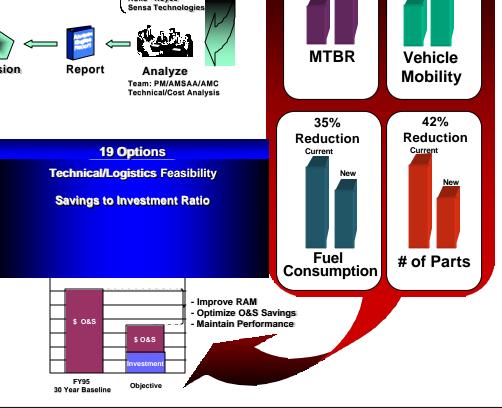
Abrams/Crusader Common Engine Program (ACCE)





Objectives and Requirements:

- Reduce Abrams Total Ownership Costs
- Reduce Crusader Systems Weight and Size
- Optimize Engine Commonality Between Abrams and Crusader
 - Training, Tools, TMDE etc.
- Mature Design Solution Low risk transition to Production



4-5X

Current

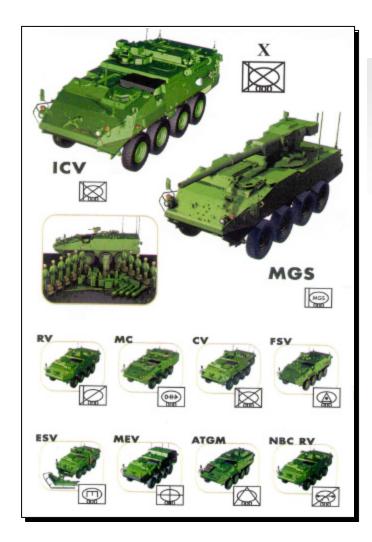
15-20%

Improvement

Current



The Interim Armored Vehicle Family



Infantry Carrier Vehicle (ICV)

- LAV III Chassis
- 8x8 Wheeled w/CTIS & Run Flat
- High Hard Steel Structure
- Remote Weapon Station with cal .50 MG or MK19 40mm

Mobile Gun System (MGS)

- LAV III Chassis
- Low Profile Turret
- M68A1 Cannon w/Autoloader
- Full Solution Fire Control

Brigade Configuration

	Qty Ea Bde	ORF	TDA	TOTAL
ICV	108	6	30	714
ATGM	9	1	15	75
MORTAR	36	2	13	241
RECON	48	3	12	318
FIRE SUPPORT	13	1	15	99
ENGR SQ VEH	9	1	13	73
CDR'S VEH	39	1	12	252
MED EVAC	17	1	10	118
NBC RECON	3	1	13	37
MGS	<u>27</u>	<u>4</u>	<u>18</u>	204
	309	21	151	
IBCTs	<u>x6</u>	<u>x6</u>		
TOTAL IAV	1854	126	151	2131



Bradley Current Status: FY2001

Bradley A0 1982



- 25MM Cannon
- Basic TOW Subsystem
- Integrated Sight Unit
- IFV 9 Man Total
- CFV 5 Man Total

2300 - 29 Losses

Reman @ UDLP

- 510 M2/M3A2 -193 A0-A2ODS

1568

A0s after all conversions

Bradley A3 2000



1042 APO 649 M2 2 LFT&E 276 M3 115 A3 BFIST

> 104 A3s today

- Core Electronic Architecture
- 2nd Gen FLIR Target Acquisition
- Command and Control Software
- CDR Independent Viewer
- Ballistic Fire Control



1042* Planned Remanufactured at York, PA

Bradley A2 ODS

- Combined Arms Team
- Laser Rangefinder
- GPS/POS NAV
- DVR Thermal Viewer
- Combat ID System
- Missile Counter Device
- Restowage

1689 ODS

1143 M2/M3 ODS **249 ADA ODS** 104 M7 ODS

193 NG ODS

1366 AC ODS + 80 RC ODS

today

York, Red River, & Field Retrofit

1986

Bradley A1



TOW II Subsystem

- Restowage
- MLRS Final Drives
- Fire Suppression Sys

GPFU Sys

Bradley / 1988



• 600 HP Powertrain

- 30MM Protection
- Spall Liners
- Ammo Restowage
- Armor Tile Ready

1371 -26 Losses

Depot Conversion

> -1345 M2/3A2

> > O

1345

Red River/

Mainz

1689

1042

1345

2411

A2s after all conversions



JLW 155 - On Track for Medium Force

XM777 Is the Joint US Marine Corps/Army 155mm Towed Lightweight Artillery System

Meets or Exceeds All Capabilities of Current M198 155mm Howitzer

▶ Weight Reduced From 16,000 to 9,000 Pounds

Highly Deployable/Transportable (CH47D, CH53D/E, C-130, C-141B, C-17, C-5 and MV-22)

Towed Artillery Digitization System

Block I

- Inertial Navigation
- Global Positioning System Backup

Block II

- Situational Awareness
- Advanced Direct Fire Sight

Vision Enablers

- Deployability
- Versatility
- Lethality





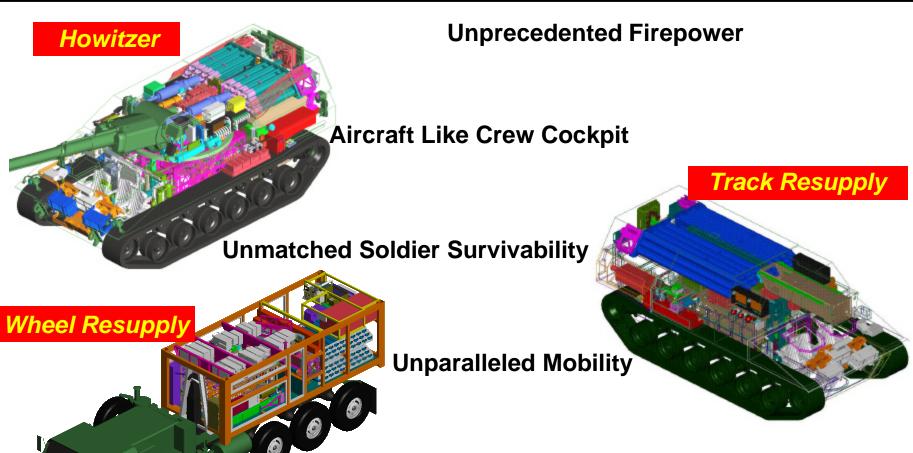
M109A6 Paladin





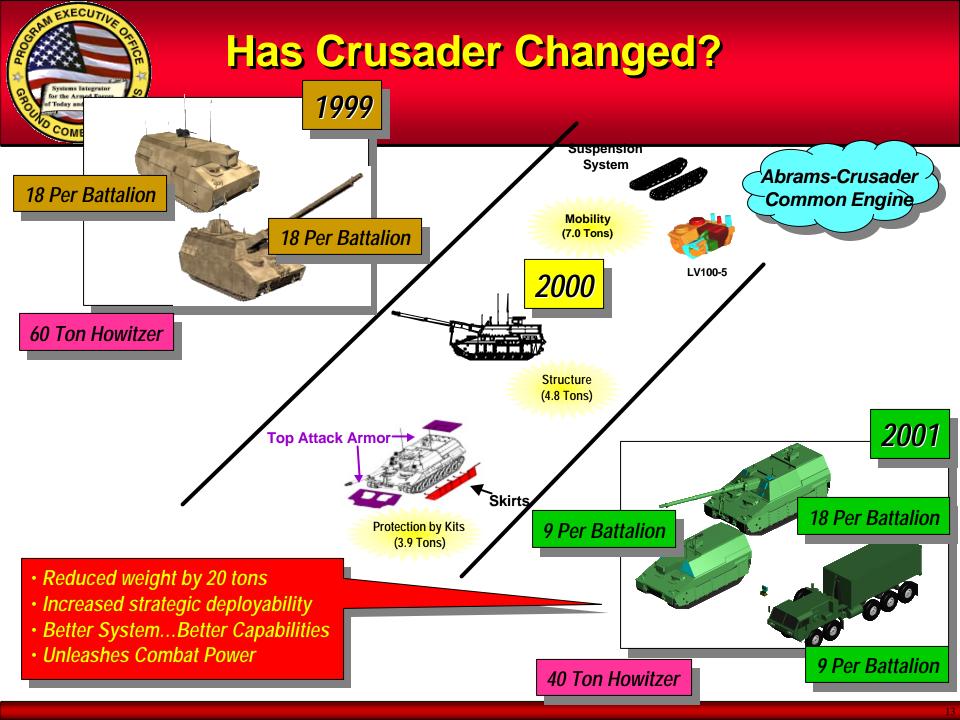


Crusader System



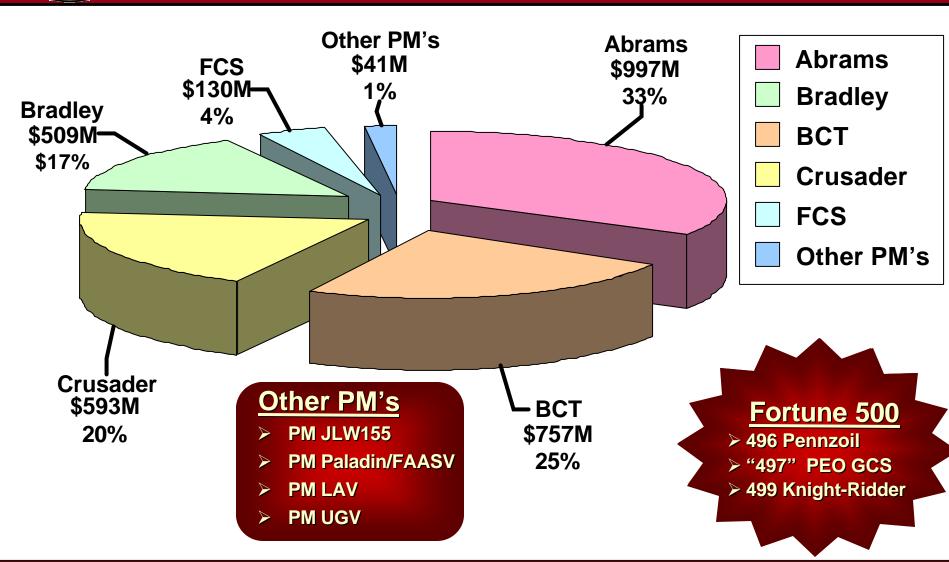
Better Gun ... Firepower Unchanged ... Log Reduced

World's Only Automated Firing & Resupply



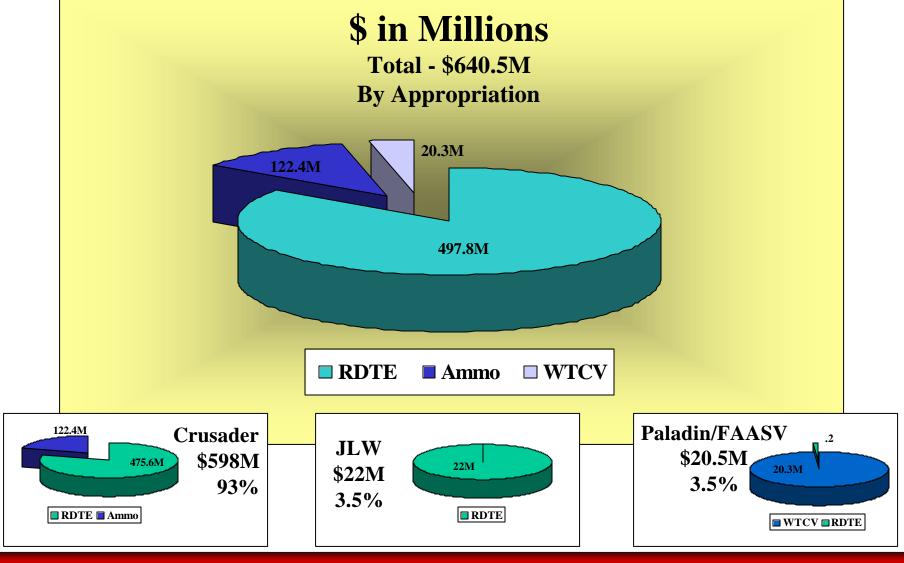


FY02 Program Funding (\$3.0B)





FY03 PEO-GCS Fire Support Division



Modular Artillery Charge System (MACS)













Capabilities / Requirements

- Optimized for Crusader
- Identifiable / Distinguishable
- 4 to 40+ km Range:
- Rate-of-Fire: 10-12 rds/min
- Accuracy: <2mps M.V. StDev
- Compatible With All Current & Future 155mm Weapon Systems
- Replaces Current 4 Charges
- **Bi-directional Igniter (Load Either End First)**
- JBMOU Compliant

Status / Fielding

- ❖ M231
 - o TC-STD -- 25 Oct 1999
 - Materiel Release -- 2QFY02
- **❖ M232**
 - TC-STD -- 08 Aug 2001
 - Materiel Release -- 4QFY03

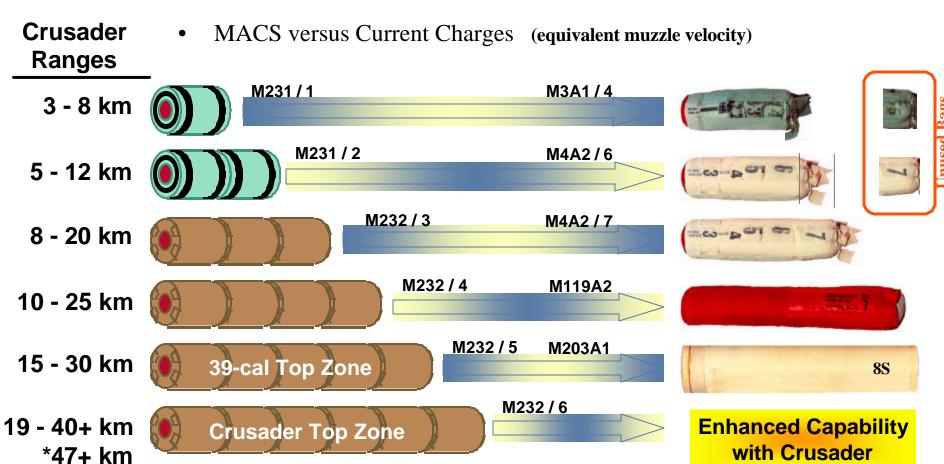
Benefits

- 17% Reduction In O&S Costs
- ❖ 40% Reduction In Cube
- 10% Reduction In Weight
- ❖ 33% Increase In Maximum Range
- 120% Increase In Rate-of-Fire
- Increased Operational Flexibility
- Efficient Use -- No "Excess"
- Compatible With Primers & Laser Ignition
- Environmental / Prevention -- Reduced Carcinogens and Eliminated Lead



* w/XM982

MACS Item Description



NOTE: 231/232 Charges Are NOT Mixed!!



Acquisition Strategy

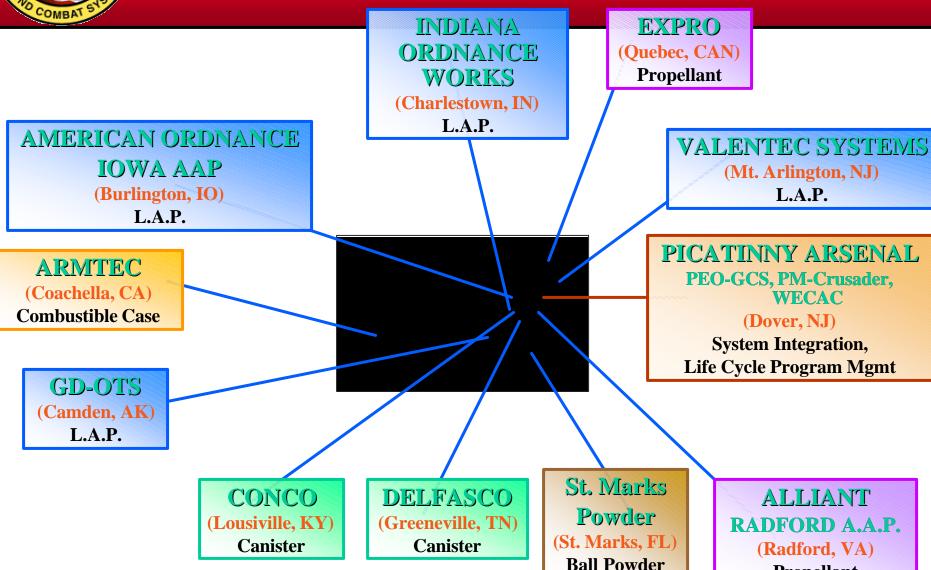
- Current (thru FY02)
 - Component Breakout/Detailed Item Specifications
 - FY00 = 520,000 units, FY01 = 355,000 units
 - Current Producers = Armtec, ATK, Expro, GD-OTS, CONCO, AO
- Future
 - Transition Component/Assembly Acquisitions to Multi-year contracts
 - Restricted Competitive (when possible)-Best Value
 - Small Business for Metal Containers

•	Nomenclature	Qty 02	Outyrs AAO:19.5M	
	M231 Propelling Chg	270K	yes (thru FY16)	
	M232 Propelling Chg	476K	yes (thru FY16)	

18



Current Players



Propellant



Summary

- PEO GCS Family of Programs
 - Aggressive Application of Innovation and Acquisition Reforms
 - A Resident World-class, Technical Workforce
 - Imaginative Exercise of the Full Line Authority of the Army Acquisition Executive
 - Near Term fieldings of MACS to Warfighters

in Ground Combat Systems and Is Poised for the Army's 21st Century Transformation